

# **PENNZOIL PLATINUM™ AXLE SAE 75W-90** Long

*Service Life, Wide Temperature Use Gear Oil*

## **TECHNICAL DATA SHEET**



PENNZOIL PLATINUM™ AXLE SAE 75W-90, combines a premium performance gear oil additive package with a high quality synthetic base stock. The result is a gear oil that provides excellent low temperature fluidity for safe lubrication during very low temperature axle and transmission startup, and also maintains a thick protective oil film during extremely hot operating conditions.

PENNZOIL PLATINUM™ AXLE SAE 75W-90 is formulated with all the performance additives necessary for outstanding protection of gears and bearings. It contains extreme pressure agents which protect against shock loading and wear. Foam inhibitors protect against oil aeration, which can rupture the lubricant film and cause wear due to lack of lubrication. Special rust inhibitors are incorporated into PENNZOIL PLATINUM™ AXLE SAE 75W-90 to protect against corrosion that can result from condensation. Oxidation inhibitors are included to further enhance this synthetic oil's inherent oxidation stability, resulting in a lubricant with exceptionally long service life and excellent resistance to deposit and sludge formation during high temperature operation.

### **PERFORMANCE, FEATURES & BENEFITS**

- Maintains fluidity at low temperatures
- Does not thin out at high temperatures
- Long service life
- Prevents rust
- Resists oxidation
- Withstands heavy shock loads
- High viscosity index

### **MAIN APPLICATIONS**



PENNZOIL PLATINUM™ AXLE SAE 75W-90 is designed primarily for the lubrication of differentials and manual transmissions requiring an API GL-5 gear lubricant. It can be used in passenger cars, light trucks, sport utility vehicles and vans. It continues to flow at very low temperatures, providing especially good protection of gears and bearings in extreme cold weather. It also provides excellent service in hot climates by not thinning at high temperatures, thereby maintaining a full film of protective lubricant on gear teeth. In hot running gear boxes, it allows long service due to the excellent stability of the synthetic base stocks used in it.

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## Limited Slip Capability

PENNZOIL PLATINUM™ AXLE SAE 75W-90 is suitable for use in conventional axles and a number of limited slip differentials. Some limited slip differentials may require additional limited slip additive due to the mechanical set up of individual vehicles. When the vehicle manufacturer requires more than 2-3% (2 ounces in a 2 quart (64 ounces) differential) of limited slip additive (limited slip friction modifier), additional limited slip additive should be used. These may include Cadillac CTS, CTS-V, Sport Wagon, SRX, STS and STS-V requires 6% limited slip additive. Some Toyota Tacoma and Tundra trucks using SAE 75W-85 fluid may also require additional limited slip additive. In these cases, 3-5% of limited slip additive may be added to prevent chattering in certain manouvres. Follow OEM requirements and check specific requirements for the vehicles differential. Requirements may vary within a vehicle model and model year.

Passenger car or truck manual transmissions experiencing difficult shifting during cold weather while using conventional mineral based, SAE 80W-90, SAE 90 or higher viscosity GL-5 oils, will typically find easier shifting characterisitcs when using PENNZOIL PLATINUM™ AXLE SAE 75W-90.

## TYPICAL PHYSICAL CHARACTERISTICS

Properties		Method	PENNZOIL PLATINUM™ AXLE SAE 75W-90
Gravity, °API		ASTM D287	33.0
Gravity, Specific	@60°F	ASTM D1298	0.860
Pounds per Gallon			7.3
Flash Point	°C(°F)	ASTM D92	201(395)
Pour Point	°C(°F)	ASTM D97	-51(-60)
Kinematic Viscosity	@40°C cSt	ASTM D445	110
Kinematic Viscosity	@100°C cSt	ASTM D445	15.7
Kinematic Viscosity	@100°F SUS	ASTM D445 & D2161	562
Kinematic Viscosity	@210°F SUS	ASTM D445 & D2161	82.1
Viscosity Index		ASTM D2270	151
Brookfield Viscosity	@-40°C cP	ASTM D2983	82 000
Channel Point	°C(°F)		-45(-50)

## SPECIFICATIONS, APPROVALS & RECOMMENDATIONS

PENNZOIL PLATINUM™ AXLE SAE 75W-90 meets all the requirements of API Service Classification GL-5 and SAE J2360.

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Help Desk.

To find the right Pennzoil® product for your vehicles and equipment, please consult [www.pennzoil.com](http://www.pennzoil.com) to look up the right motor oil recommendation using our oil selector.

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These characteristics are typical of current production. While future production will conform to Pennzoil's® specification, variations in these characteristics may occur.

## **HEALTH, SAFETY & ENVIRONMENT**

### **Health and Safety**

Pennzoil Platinum™ Axle 75W-90 is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet (MSDS), which can be obtained from [www.epc.shell.com](http://www.epc.shell.com)

### **Protect the Environment**

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

## **ADDITIONAL INFORMATION**

### **• Advice**

Advice on applications not covered here may be obtained from your Shell Lubricants distributor representative or Shell Technical Help Desk.